



Version with Markings to Show Changes for Patent:

COMPUTER MOUSE

D. Darian Muresan and David Muresan

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Abstract

This invention refers to a computer mouse used to control the pointer on a monitor screen.

Background of the Invention

The existing mouse use a mechanical schematic with a rubber ball which will rotate the X and Y coordinate shafts, as the mouse is moved on a surface. The ball S is pressed against the X and Y shafts with a wheel H (Fig. 1).

The disadvantages of the existing mouse are: low precision of the mouse pointer on the screen as, it will get stuck often and it needs cleaning, especially the H wheel. The H wheel will create these problems because of the higher friction when it will move in a plane not perpendicular on it, and the dirt on the wheel H. The ball will not rotate smoothly:

Brief Summary of the Invention

This invention eliminates the above disadvantages, because it will eliminate the wheel H, which is responsible for most of the problems.

Brief Description of the Drawings

- Fig. 1. The mechanical schematic of an existing mouse.
- Fig. 2. The mechanical schematic according with this invention.

Detailed Description of the Invention

In Fig. 2 the wheel is replaced with a magnet M, which will create the force F, necessary to press the ball S against the X and Y coordinate shafts. Between the magnet and the ball will exist air and the ball has a magnetic core. That will reduce the total ball friction, increase the precision and reduce the necessity for cleaning.

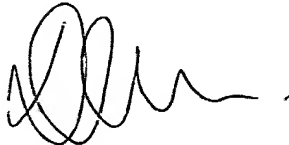
Claim

We claim:

1. A computer mouse characterized by using a magnet, to press the rubber magnetic core ball against the coordinates X and Y shafts only; and

there is no third contact between the ball and any other part of the mouse, especially no third contact between the ball and another wheel (Fig. 2).

David Darian Muresan and David Muresan



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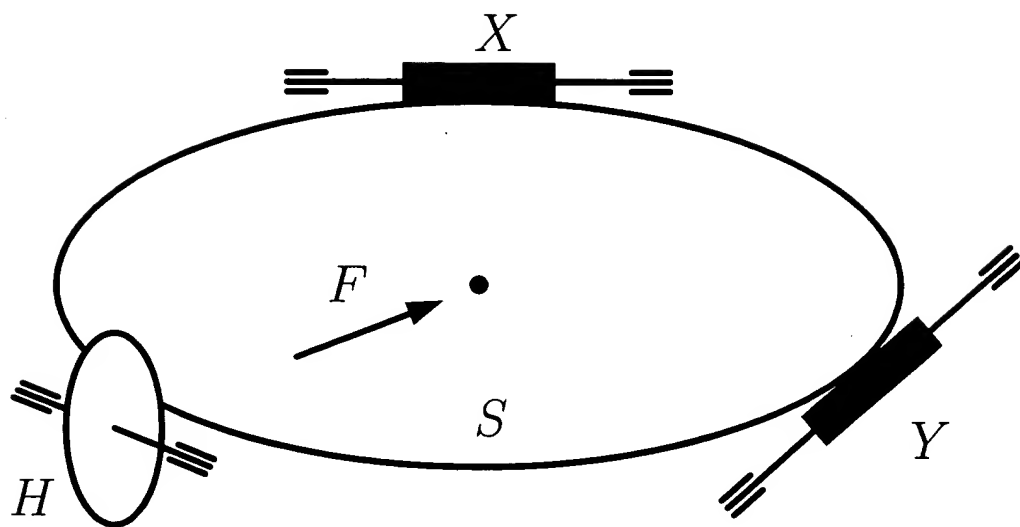


FIG. 1

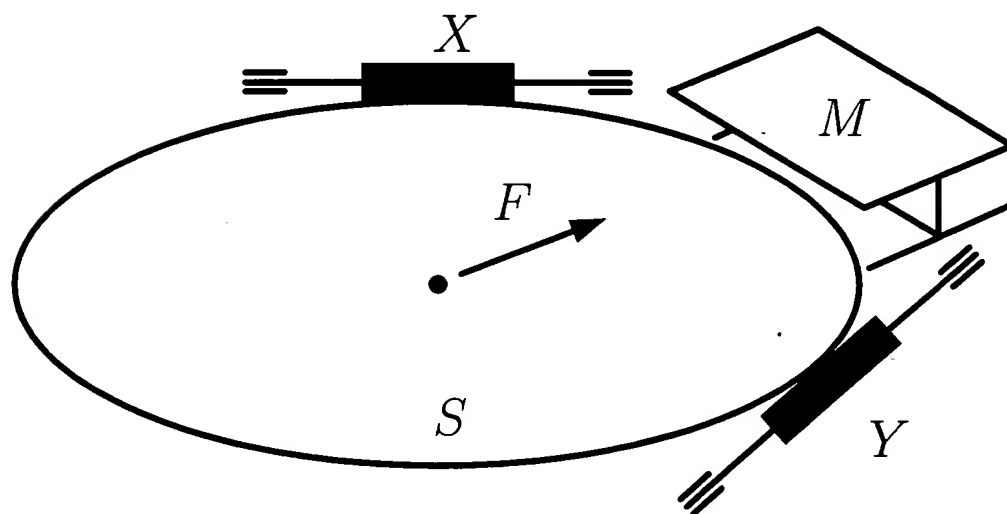


FIG. 2